

OBLON ET AL (703) 413-3000

DOCKET # 192863450 PCT SHEET 1 OF 28

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Eragment
size
(bp)

A B C

23130
9416
6557
43612322
2027

564

← 1000

FIGURE 1

REPLACEMENT SHEET (RULE 26)

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hsKin17.pap	16	10	1997	16	80	10	20	30	40	50	60	70	80	90	100
hsKin17.pap	MKSDFLTPK AIANRIKSKG LQKLRYCQM CQKQCRDENG FKCHCMSESH QRQLLASEN PQQFMDYFSE EFRNDFLELL RRREGTKRVH NNIVYNEYIS														
mmKin17.pap	MKSDFLSPK AIANRIKSKG LQKLRYCQM CQKQCRDENG FKCHCMSESH QRQLLASEN PQQFMDYFSE EFRNDFLELL RRREGTKRVH NNIVYNEYIS														
hsKin17.pap	HREHIMNAT QWETLTDFTK WLGREGCKV YIDRDPETIR RQLELEKXK QDLDEKTA KFIEEQVRG LEQEQETPV FTLSRENEE														
mmKin17.pap	HREHIMNAT QWETLTDFTK WLGREGCKV YIDRDPETIR RQLELEKXK QDLDEKTA KFIEEQVRG LEQEQETPV FTLSRENEE														
hsKin17.pap	EKVTFNLKSG ACSSSGATSS KSSTLGPSSAL KTIQSSASVK RKSSQSSTQ SKEKKKKSA LDEIMEIEEE KKTARTDYN LQPEIIVKII TKKLGEKYHK														
mmKin17.pap	EKVTFNLKSG ACSSSGATSS KSSTLGPSSAL KTIQSSASVK RKSSQSSTQ SKEKKKKSA LDEIMEIEEE KKTARTDYN LQPEIIVKII TKKLGEKYHK														
hsKin17.pap	KKAIVKEVID KYTAVVKMID SGDRLKLDQT HLETVPAPG KRILVNLGGY RGNEGTLES IETGPKGRR VEGIOVEDIS KLA														
mmKin17.pap	KKGWKEVID KYTAVVKMID SGDRLKLDQT HLETVPAPG KRILVNLGGY RGNEGTLES IETGPKGRR VEGIOVEDIS KLA														
hsKin17.pap	KKAIVKEVID KYTAVVKMID SGDRLKLDQT HLETVPAPG KRILVNLGGY RGNEGTLES IETGPKGRR VEGIOVEDIS KLA														
mmKin17.pap	KKGWKEVID KYTAVVKMID SGDRLKLDQT HLETVPAPG KRILVNLGGY RGNEGTLES IETGPKGRR VEGIOVEDIS KLA														

FIGURE 2A

REPLACEMENT SHEET (RULE 26)

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hsKin17.seq	510	520	530	540	550	560	570	580	590	600
	TATCGCCCG	CAACTGGAC	TGGAGAAA	GAAAAAGCAG	GACCTTGATG	ATGAGAGAAA	AACCTGCCAA	TTTATTGAAG	AGCAAGTGAG	AAGAGGCTG
mmKin17.seq										
	CATCCGTCG	CAACTGGAT	TAGAAAAA	GNAGAGCA	GATCTGGACG	ATGAAGAAA	AACCTGCCAG	TTTATTGAGG	AGCAGGTCAG	AAGAGGCTG
hsKin17.seq	610	620	630	640	650	660	670	680	690	700
	GAAGGAGG	AACAGGCGT	CCCTACTTTT	ACGGAATTAA	GCAGAGAAA	TCATGAAGAG	AAAGTCACGT	TTAATTGAG	TAAAGGACCA	TGTAGCTAT
mmKin17.seq										
	GAAGGAAAG	AGCAGGAGAC	ACCTGTTTTT	ACAGAACTTA	GCCGAGAAA	TCAGGAAGAA	AAAGTTACGT	TCATTTGAA	TAAAGGACCG	GCTGGCTCAG
hsKin17.seq	710	720	730	740	750	760	770	780	790	800
	CCGAGGCAAC	ATCTTCCAG	TCAAGTACTC	TGGGACCGAG	TGCACCTGAG	ACGATAGGAA	GTTACAGATC	AGTGAACCA	AAAGATCTT	CCGAGAGCTC
mmKin17.seq										
	CCGAGGCTAC	AACATCCAAG	TCAAGCTCTT	TGGGACCAAG	TGCACCTGAG	CTGCTGGGA	GCCGACGATC	CGGGAACCG	AAAGATCTT	CACAGACCTC

FIGURE 2B (continued)

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hsKin17-mmKin17	16	10	1997	15	59	810	820	830	840	850	860	870	880	890	900
hsKin17.seq	AACTCACTCT	AAAGAAGA	AGAAAGA	ATTCACCTG	GATGAATCA	TGGAGATTG	AGAGAAAG	AAAGAAGT	CCGAACAG	CTACTGGCTA
mmKin17.seq	CGCCCGCCT	GC	GA	AGAGAAGA	GTCCGCCCTG	GATGAGATCA	TGGAGCTCG	AGAGAAAG	AAAGGACCG	CAGGACACA	CGCCTGGTTA	..	..	..	..
hsKin17.seq	CAGCCTGAA	TTATTGTA	AAATTAACC	AGAAACTGG	GAGAGAAAT	TCATAGAA	AAAGCTTAT	GTTAAGGAG	TAATTGACAA	ATATACAGCT	..	..	..	..	..
mmKin17.seq	CAGCCGGGA	TCGTTGTGA	AATTATAAG	AGAAGCTTG	GGAGAAATA	TCACAAGA	AAAGGG	TC	GTTAAGGAG	TCATTGACAG	GTACACAGCT	..	..	..	..
hsKin17.seq	GTGCTGAAG	TCATTGATC	TGGAGACAG	CTGAAGCTG	ACGAGACTCA	TTTAGAGACA	GTAATTCAG	CACGAGGAA	AGAATTCCTA	GTTTAAATG	..	..	..	..	..
mmKin17.seq	GTGCTAAGA	TGACTGACTC	TGGAGACAG	CTGAAGCTG	ACGAGACTCA	TTTAGAGACA	GTCTTTCGG	CCCCGGGAA	AGCGTTCCTA	GTTTAAATG	..	..	..	..	..
hsKin17.seq	GAGGCTACAG	AGGAATGAA	GCTACCCCTAG	ATCCATCAA	TGAGAGACT	TTTTCAGCTA	CTATGCTCAT	TGAAGCTGC	CCTTTAAAG	GACGACAGT	..	..	..	..	..
mmKin17.seq	GAGGCTACAG	AGGAATGAA	GGCACTCTCG	ATCCATCAA	TGAGAGGCT	TTTTCAGCTA	CGATGCTCAT	TGAAGCTGC	CCTTTGAAAG	GACGACAGT	..	..	..	..	..
hsKin17.seq	TGAAGGAAT	CAATATGAG	ACATTCTTA	ACTTGCCTGA	GTTTGAAAT	TGTTAACA	TACCTTTAA	ATCT	TAAAG	CATCAAAATG	G'GTTTCG	..	..	..	..
mmKin17.seq	TGAAGGTAT	CAATATGAG	ACATATCTTA	ACTTGCCTGA	GTTTGAAAT	TGATAACA	CACA	TTGAA	A	CTGTGAAG	CATCAAAATG	GTGTTAGCCA	..	..	..
hsKin17.seq	AGGCACTGTG	TAACCTACT	GTGTTAGGG	ATTGTTTTC	TATTAATA	AAAAAATCA	TCTATTAAA	TACTAGTGA	TAGTTGGGTA	AATTATAT	..	..	..	..	..
mmKin17.seq	AGGCACTGTG	TAACCTACT	GTGTTAGGG	ATTGTTTTC	TATTAATA	AAAAAATCA	TCTATTAAA	TACTAGTGA	TAGTTGGGTA	AATTATAT	..	..	..	..	..
hsKin17.seq	AAAACTATG	TTTTTTTTA	GTGTAAAAA	AAAAAATA	AAAAAATA	AAAAAATA	AAAAAATA	AAAAAATA	AAAAAATA	AAAAAATA	..	..	..	..	..
mmKin17.seq	AAAACTATG	TTTTTTTTA	GTGTAAAAA	AAAAAATA	AAAAAATA	AAAAAATA	AAAAAATA	AAAAAATA	AAAAAATA	AAAAAATA

FIGURE 2B (continued)

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A

Kin-17

heart
brain
placenta
lung
liver
skeletal muscle
kidney
pancreas

spleen
thymus
prostate
testicle
ovary
small intestine
colon
peripheral blood leukocyte

β Actin

FIGURE 3A

REPLACEMENT SHEET (RULE 26)

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B

HL-60
Hela S3
K-562
Molt-4
Raji
SW480
A 549
G 361

Kin-17



β Actin



FIGURE 3B

REPLACEMENT SHEET (RULE 26)

004220 6295560

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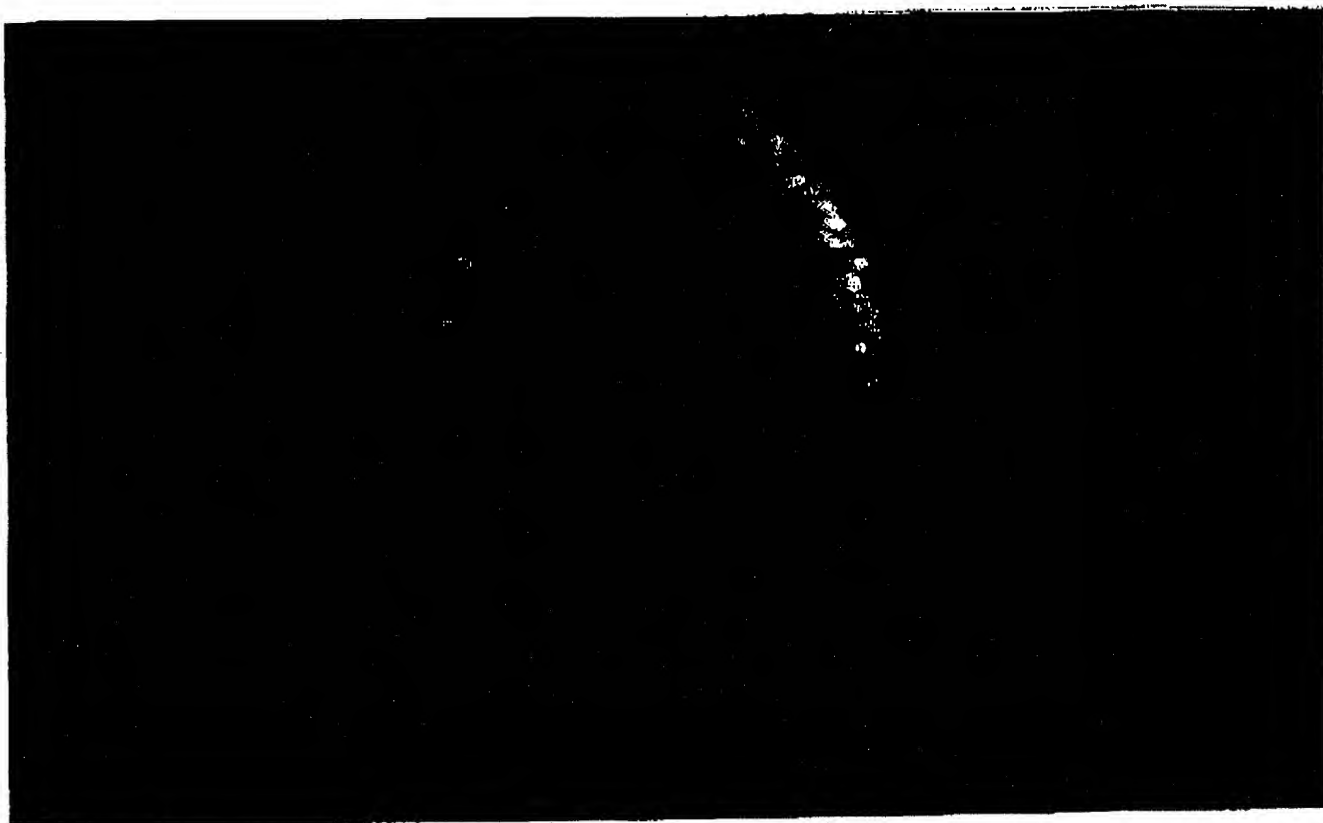


FIGURE 4A

REPLACEMENT SHEET (RULE 26)

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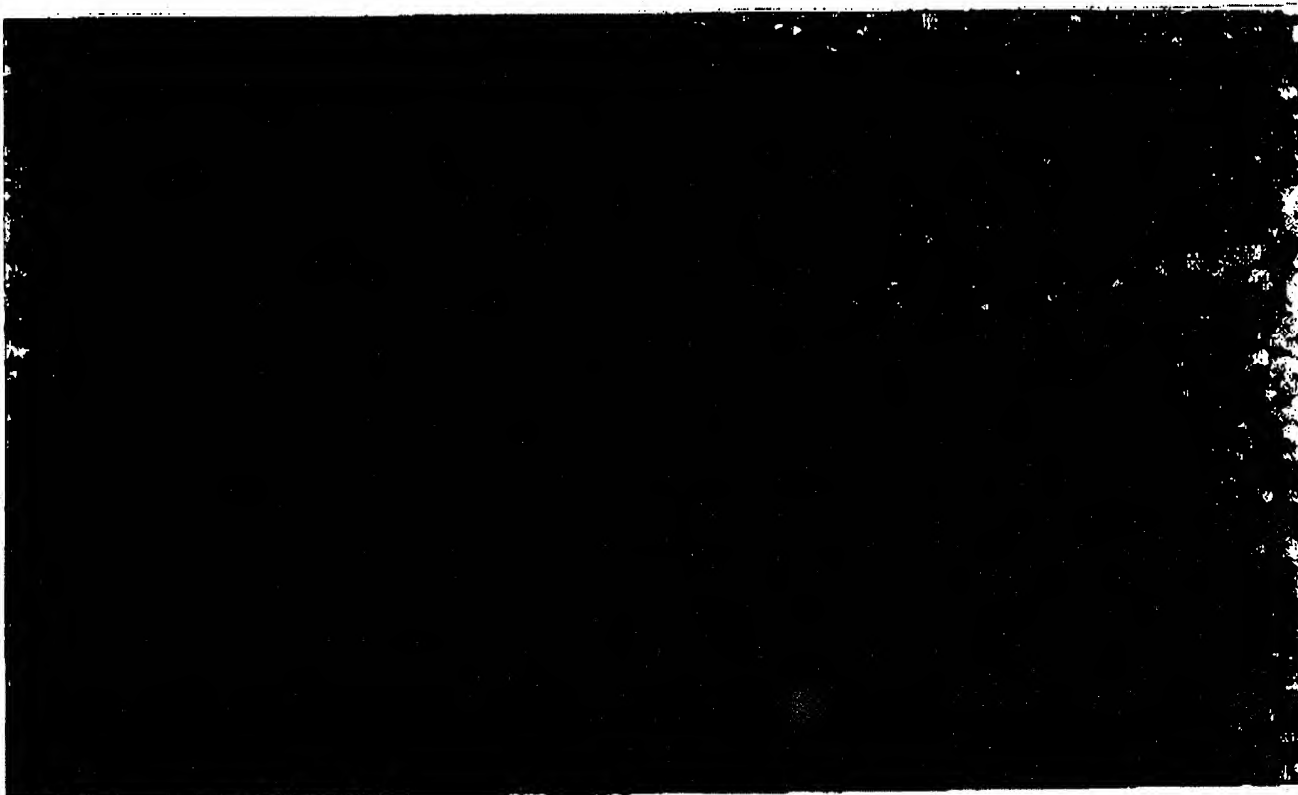


FIGURE 4B

REPLACEMENT SHEET (RULE 26)

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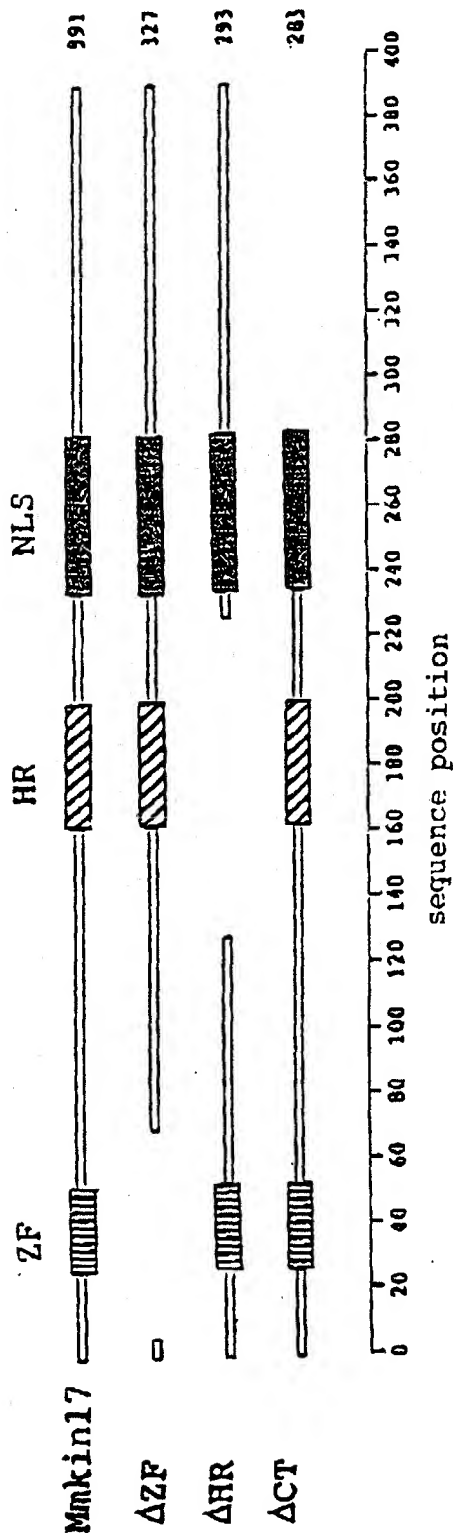


FIGURE 5

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FIGURE 6A

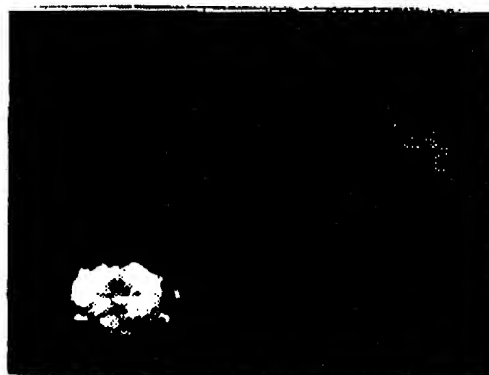


FIGURE 6B

REPLACEMENT SHEET (RULE 26)

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004220" 92555560

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004240" 02555560

FIGURE 7B

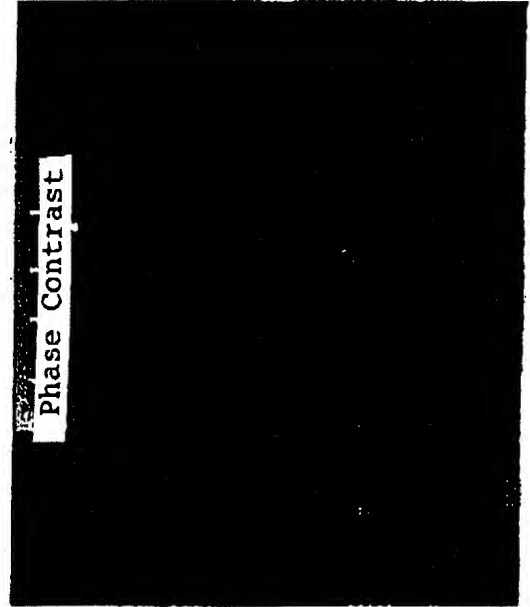
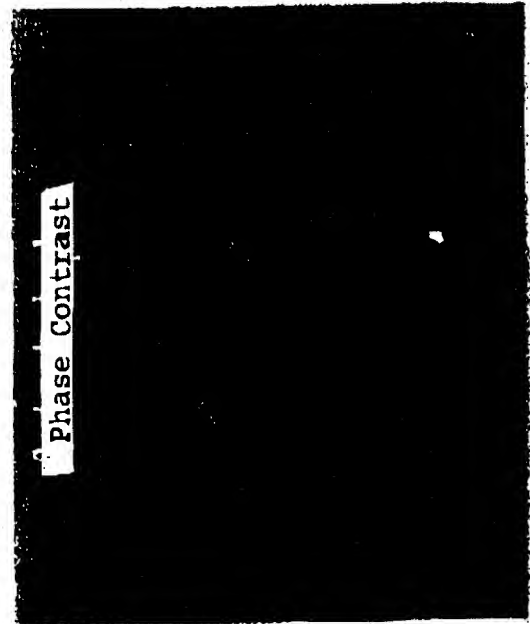


FIGURE 7A



REPLACEMENT SHEET (RULE 26)

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Abstract-RecA

DAPI

Phase Contrast

FIGURE 8A

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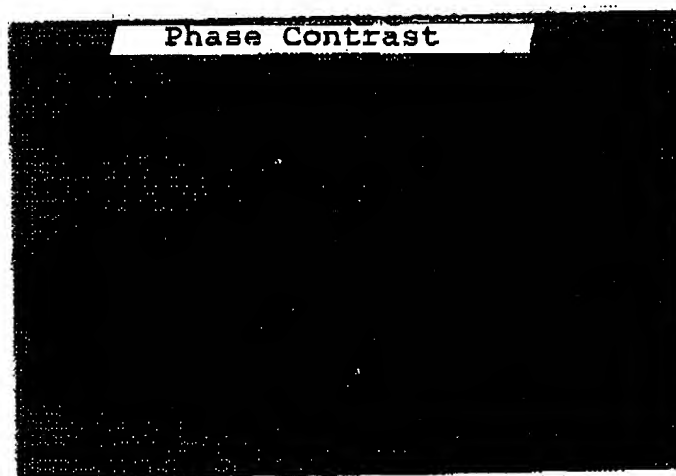
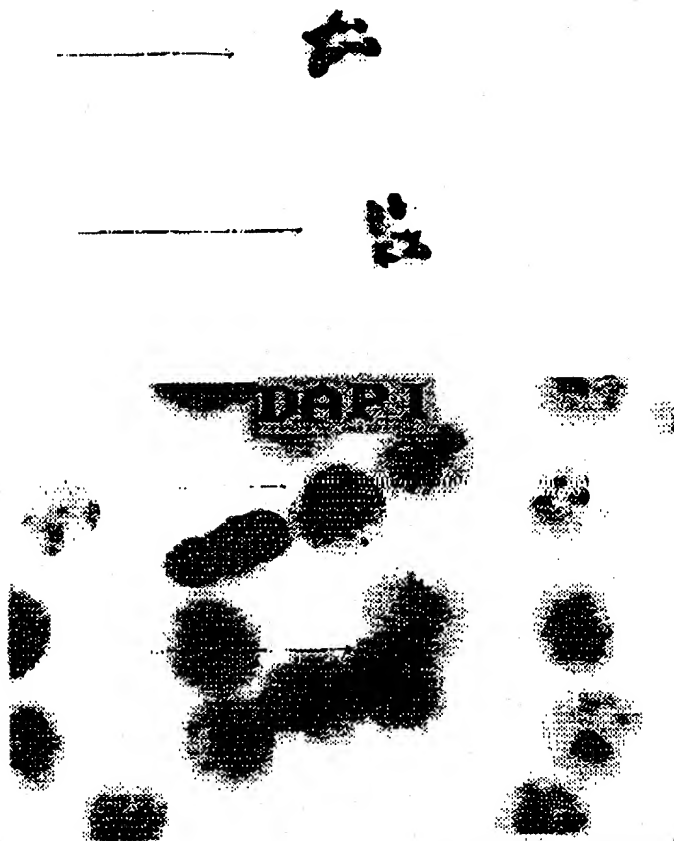


FIGURE 8B

REPLACEMENT SHEET (RULE 26)

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0042/0" 66555550

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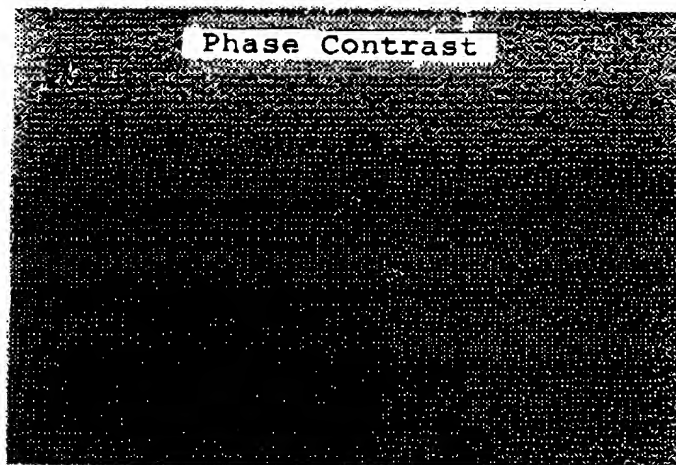
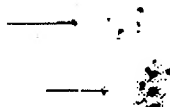


FIGURE 9

REPLACEMENT SHEET (RULE 26)

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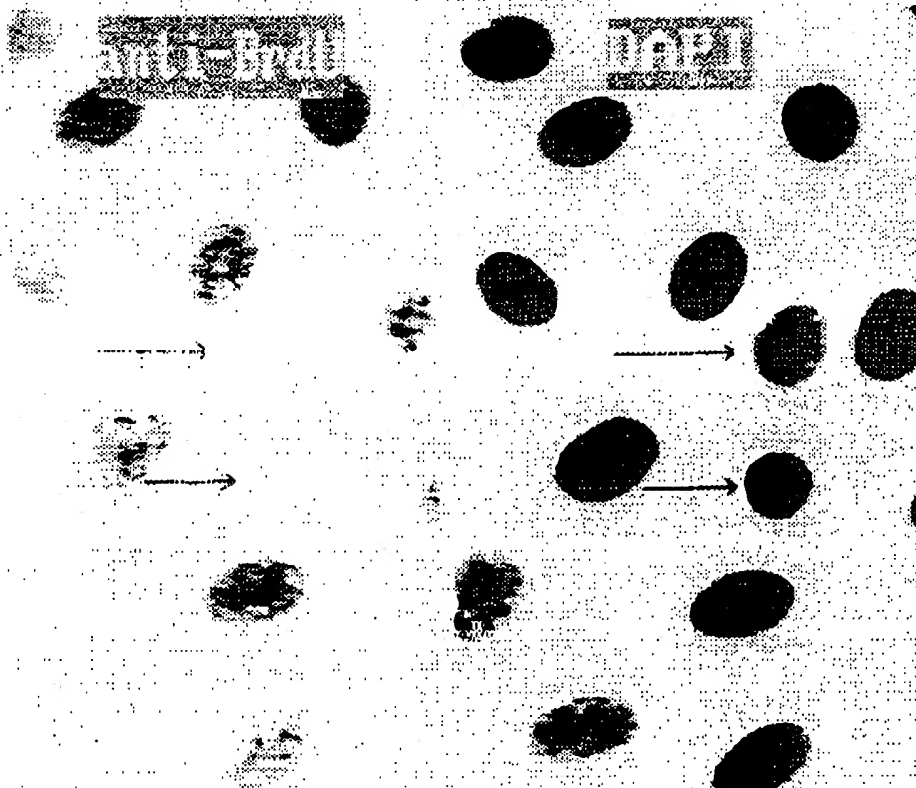


FIGURE 10A

REPLACEMENT SHEET (RULE 26)

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Protein expressed	none	kin17		kinΔHR	kinΔCT
		low level	high level		
% of cells replicating their DNA.	40	40	0	0	33

FIGURE 10B

004220 6255550

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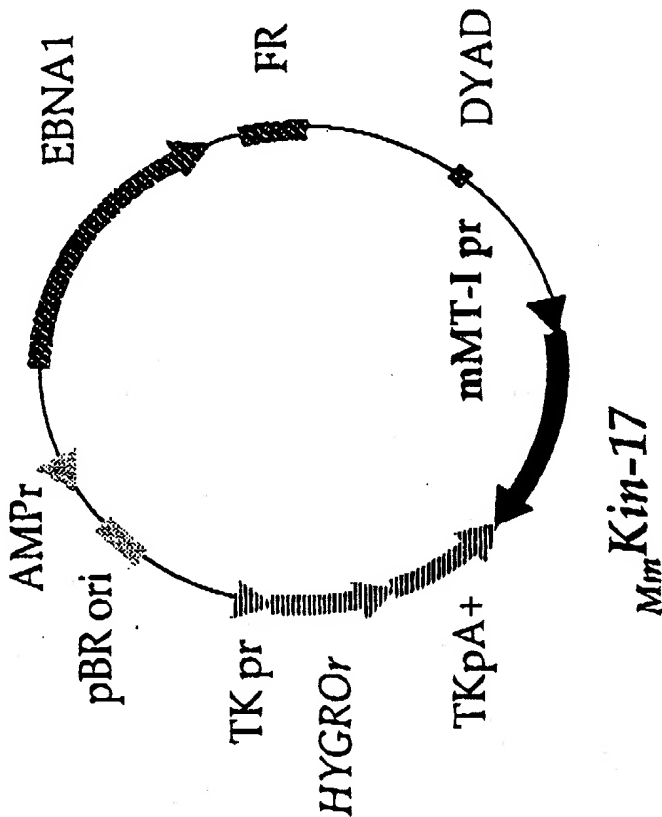
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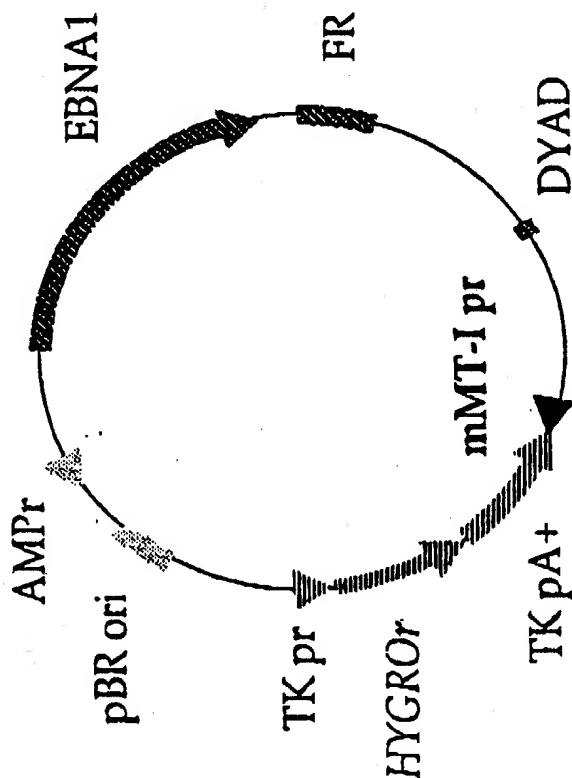
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pEBVMT_{Mm} Kin17 (pB223)

(10271 bp)

FIGURE 11B



pEBVMTΔ (pB220)

(8824 bp)

FIGURE 11A

001240 62959560

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FIGURE 12A

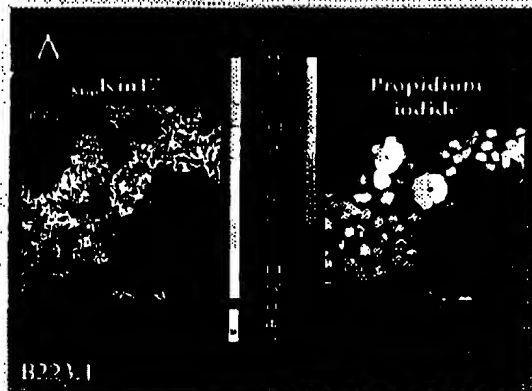


FIGURE 12B

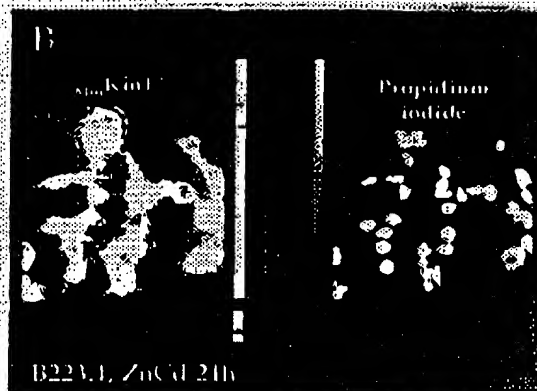


FIGURE 12C

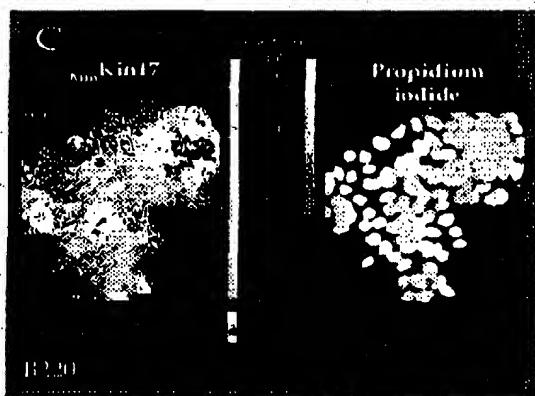
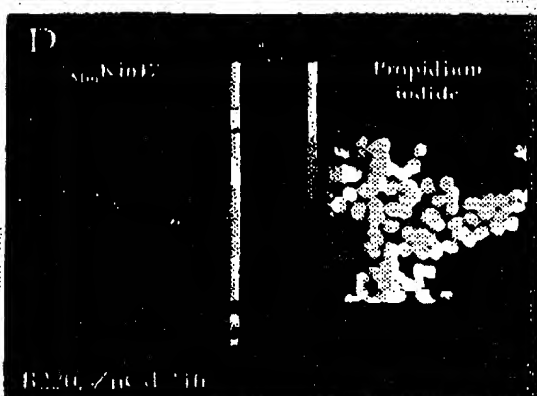


FIGURE 12D



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A

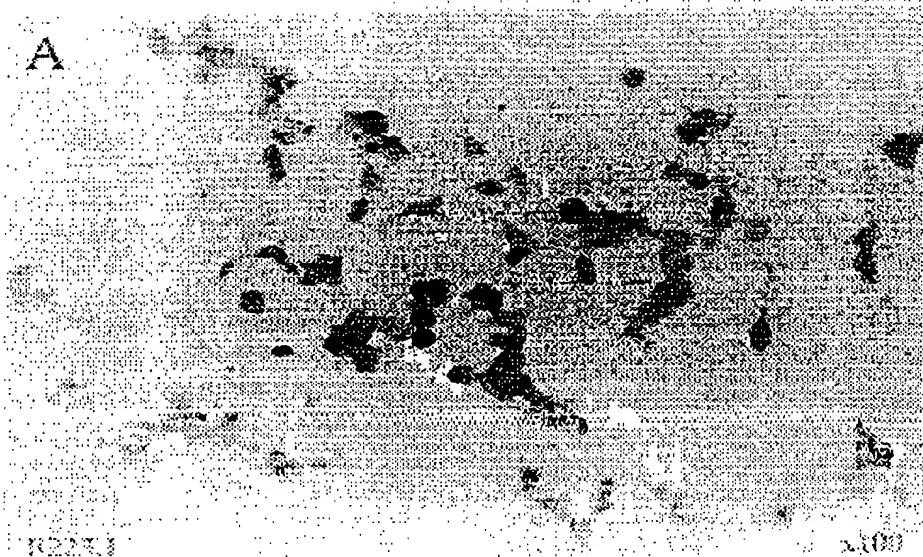
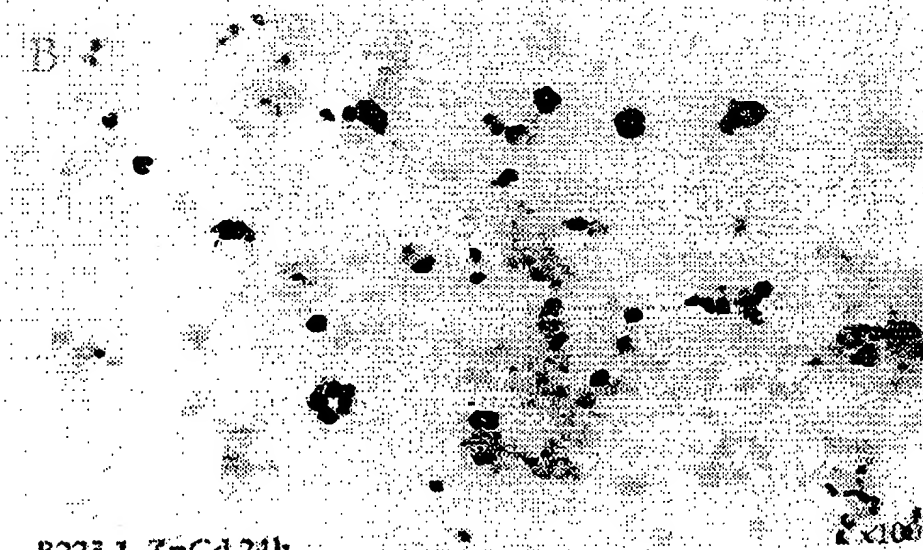


FIGURE 13A

B



B223.1, ZnCd 24h

FIGURE 13B

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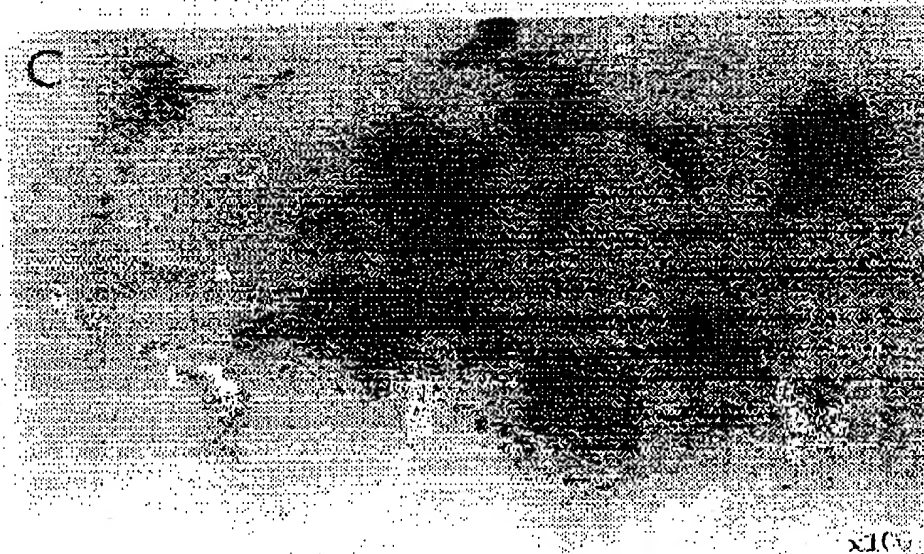


FIGURE 13C

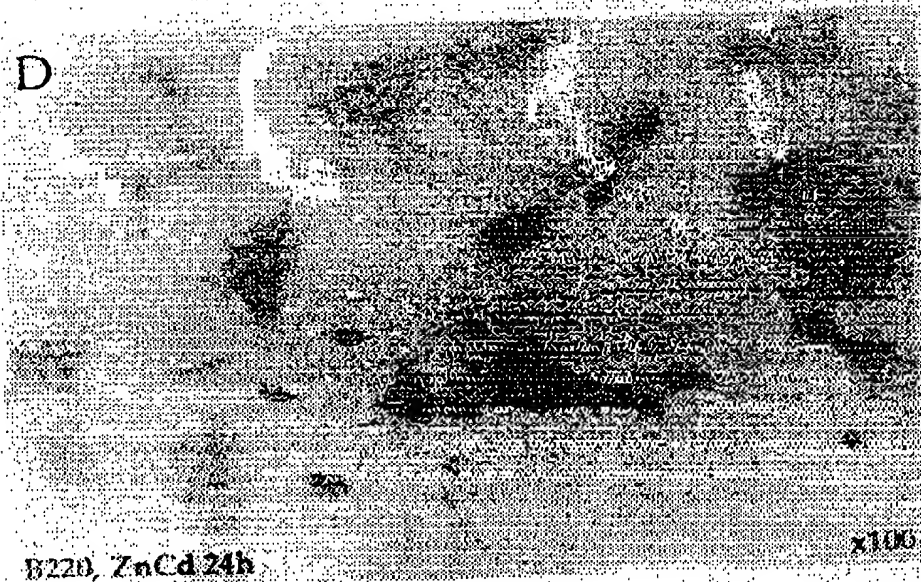


FIGURE 13D

REPLACEMENT SHEET (RULE 26)

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FIGURE 14B

x1000

x1260

FIGURE 14D

FIGURE 14A

B

D

FIGURE 14C

A

x504

C

x1000

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x1260

FIGURE 14F

FIGURE 14E

x2000

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— ZnCd

+ ZnCd

Cells

B220

Cells

B223.1

Cells

B223.2

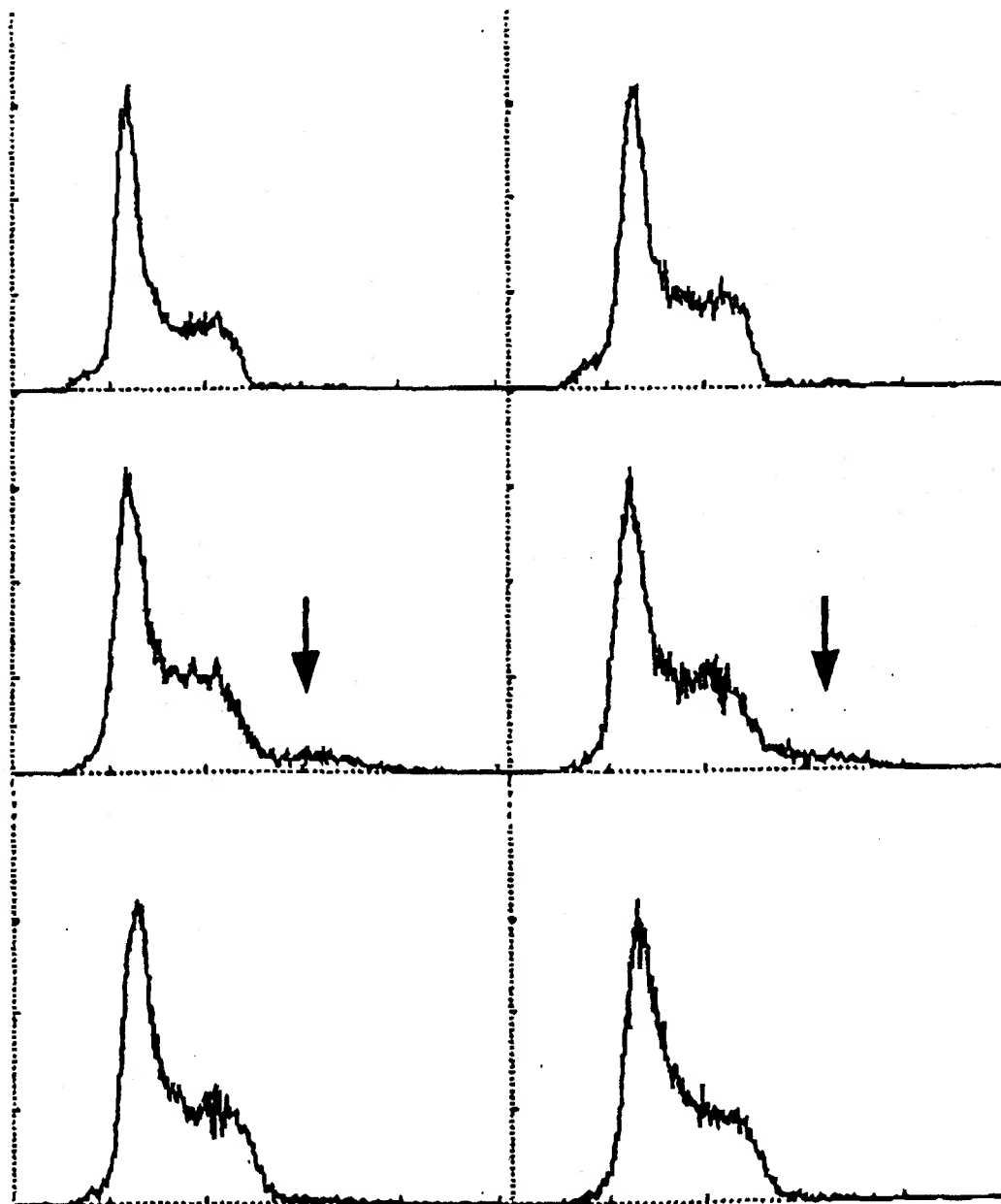


FIGURE 15

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00412/0" 6255560

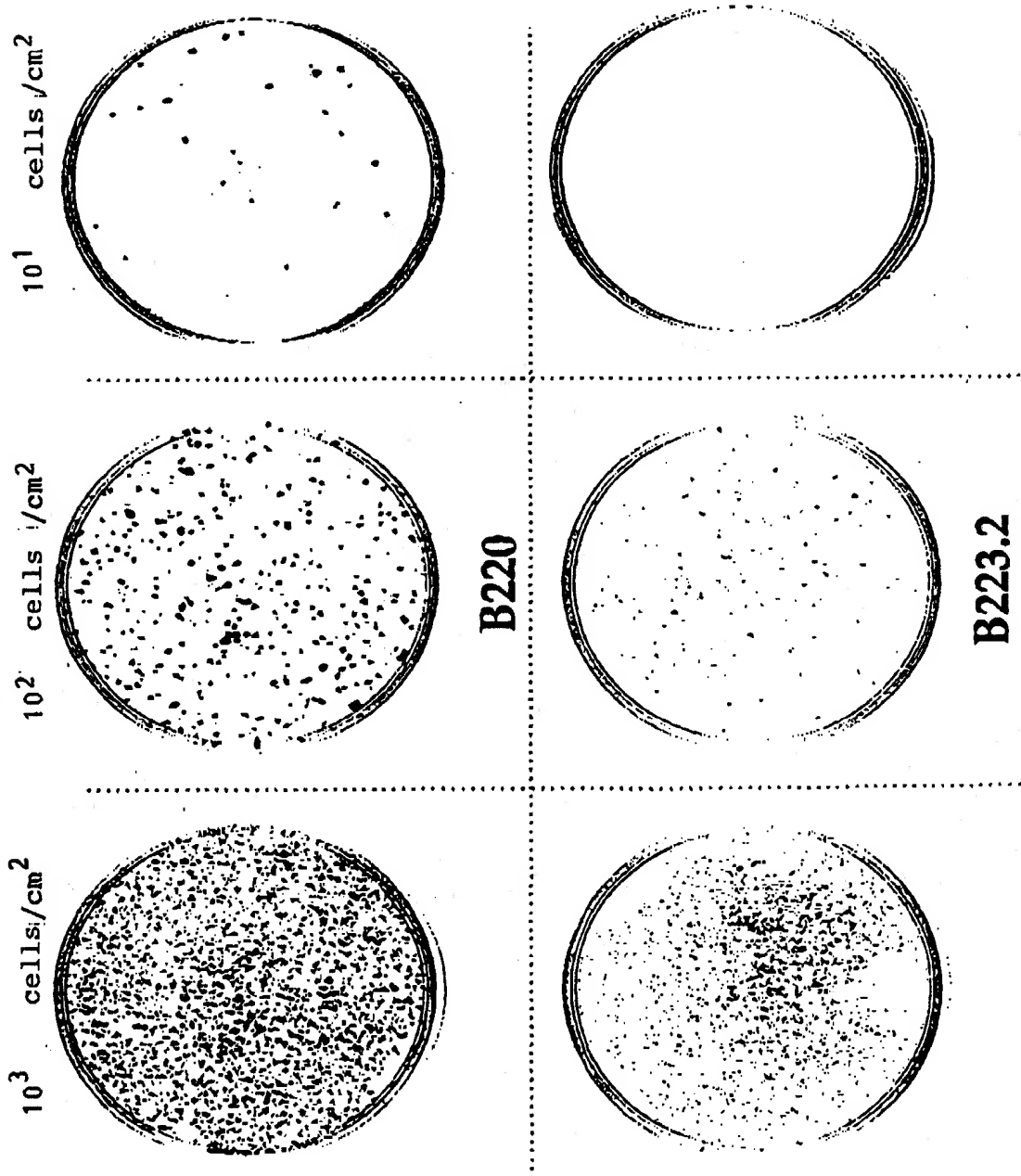


FIGURE 16

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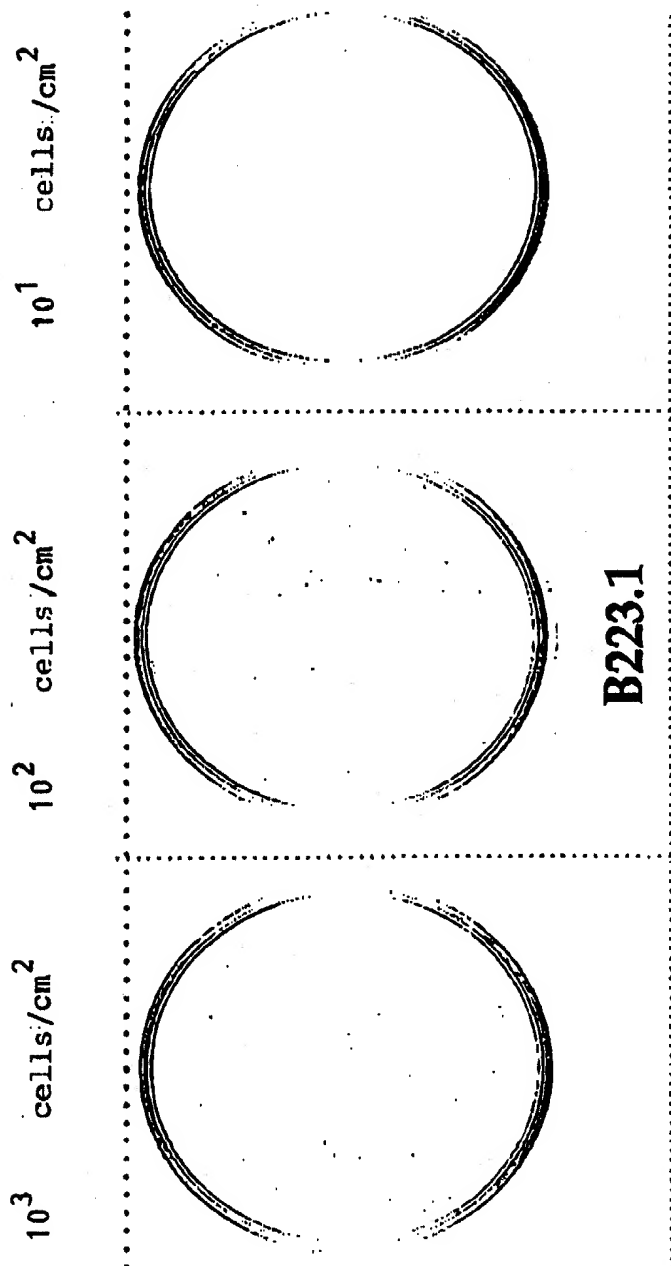


FIGURE 16 (continued)

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FIGURE 17A

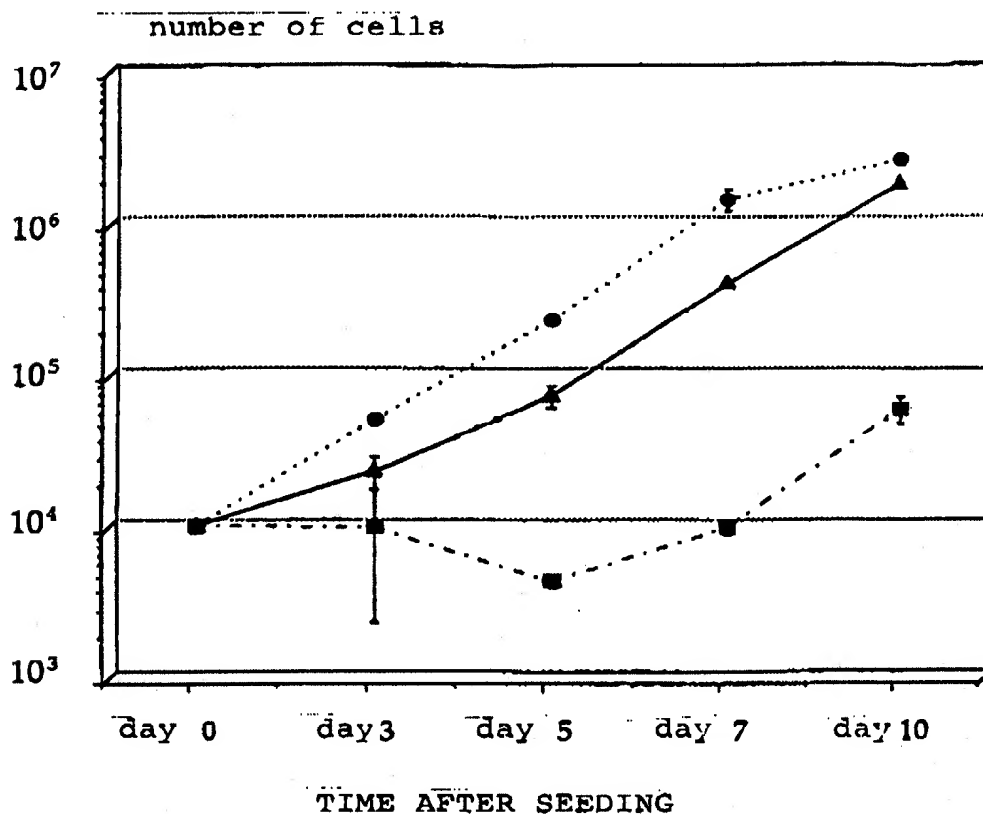
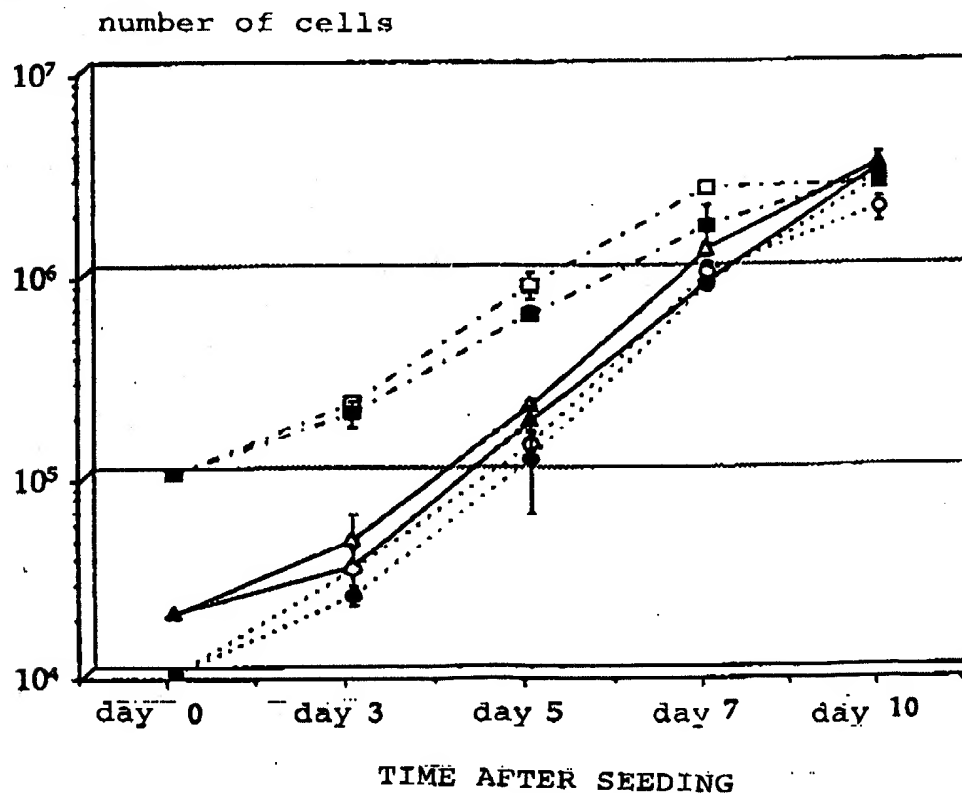


FIGURE 17B



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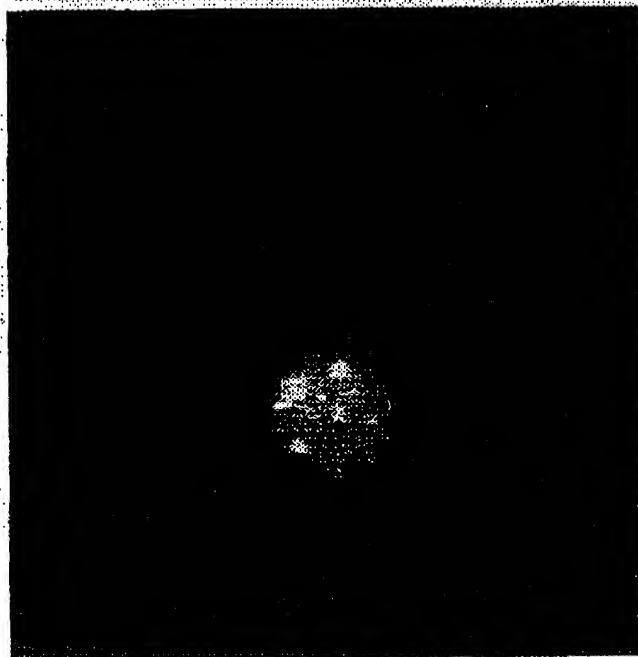
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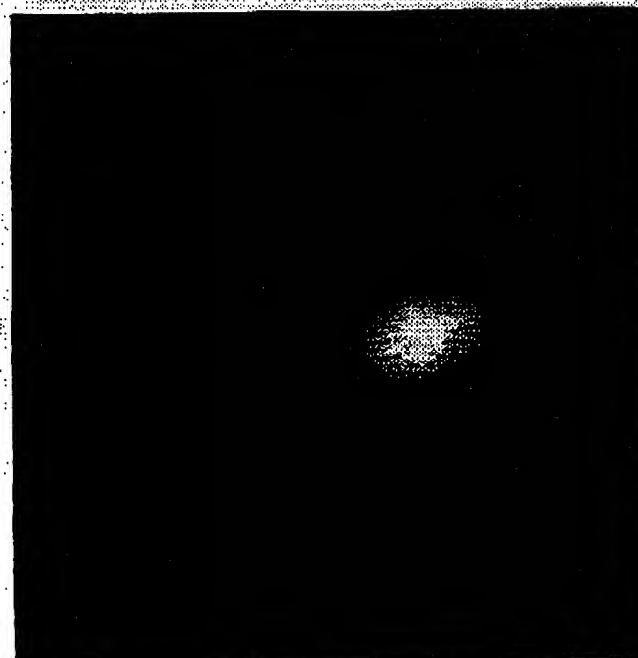
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GFPkin17NLS-CT

FIGURE 18B



GFPkin17DCT

FIGURE 18A

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09555529 07400